

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

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In the Matter of:

APPLICATION OF HENDERSON COUNTY)	
WATER DISTRICT OF HENDERSON AND)	
WEBSTER COUNTIES, KENTUCKY FOR)	
(1) CERTIFICATE OF PUBLIC)	
CONVENIENCE AND NECESSITY; (2))	
THE APPROVAL OF THE PROPOSED PLAN))	CASE NO. 9237
OF FINANCING OF SAID PROJECT;)	
(3) APPROVAL OF THE INCREASED)	
WATER RATES PROPOSED TO BE)	
CHARGED BY THE DISTRICT TO)	
CUSTOMERS OF THE DISTRICT)	

O R D E R

IT IS ORDERED that Henderson County Water District ("Henderson"), shall file an original and ten copies of the following information with the Commission with a copy to all parties of record, within 3 weeks of this Order. If neither the requested information nor a motion for extension is filed by the stated date, the Commission may dismiss the case without prejudice.

1. The following are in reference to the breakdown of Operation Supplies and Expenses of \$7,708 provided in Item 1B:

- a. Provide further explanations of the water analysis of \$1,252 and radio communications of \$637.
- b. Provide documentation to substantiate pump repairs of \$515. (Items less than \$50 may be consolidated or repetitive items grouped and shown as a single or combined amount.)

2. Provide documentation to substantiate the following expenses provided in the breakdown of Vehicle and Equipment (\$16,035) in Item 1B. (Items less than \$50 may be consolidated or repetitive items grouped and shown as a single or combined amount.)

a. Backhoe repairs and maintenance	\$1,273
b. Tires, mounting and repairs	\$1,534
c. Other vehicle repairs and maintenance	\$1,007
d. Gas and oil - all vehicles	\$11,935

3. When you capitalize an expenditure do you add the labor cost to the item or do you record the labor as a maintenance expense?

4. Is the maintenance of mains (leak repairs) entirely contracted to outside companies?

5. The following are in reference to the breakdown of salary expense provided in Item 1C and D and the workpapers for the pro forma labor expense adjustment provided in Item 3:

- a. How are vacation and sick pays computed?
- b. Why are the hours worked used in the breakdown of salary different than those used in the workpapers for the labor expense?
- c. How were the salary allocations used in the workpapers for the labor expense computed?
- d. Do all the employees work a 40 hour week?

6. Provide a full explanation of what actually transpired when the 1978 revenue bonds were issued and the 1966 outstanding bonds were refunded. Also provide the accounting entries for the above transactions.

7. Provide the maturity date, bond number and price paid for any bond that was purchased before the maturity date.

8. Provide hydraulic analyses, supported by computations and actual field measurements, of typical operational sequences of the existing water distribution system. These hydraulic analyses should demonstrate the operation of all pump stations and the "empty-fill" cycles of all water storage tanks. Computations are to be documented by a schematic map of the system that shows pipeline sizes, lengths, connections, pumps, water storage tanks, wells, and sea level elevations of key points, as well as allocations of actual customer demands. Flows used in the analyses shall be identified as to whether they are based on average instantaneous flows, peak instantaneous flows, or any combination or variation thereof. The flows used in the analysis shall be documented by actual field measurements and customer use records. Justify fully any assumptions used in the analyses.

9. Provide a summary of any operational deficiencies of the existing water system that are indicated by the hydraulic analyses or that are known from experience.

10. Provide hydraulic analyses, supported by computations and field measurements, demonstrating the appropriateness of the engineering design of the proposed construction of additions and extensions. Justify fully any assumptions used in the analyses.

11. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available at Henderson County's Corydon tank. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

12. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available at Henderson County's Rock Springs tank. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

13. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Henderson County's water line at the connection point to the City of Henderson's water system at Pump No. 1. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

14. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Henderson County's water line at the connection point to the City of Henderson's water system at Pump No. 2. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

15. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Henderson

County's proposed connection point to the City of Henderson's water system on Highway 41. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

16. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Henderson County's proposed connection point to the City of Henderson's water system to serve the Wilson area. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

17. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Henderson County's water line in the vicinity of Junction 204. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

18. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Henderson County's water line in the vicinity of Junction 230. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

19. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Henderson County's water line in the vicinity of Junction 151. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

20. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Henderson

County's water line in the vicinity of Junction 138. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

21. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Henderson County's water line in the vicinity of Junction 77. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

22. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Henderson County's water line in the vicinity of Junction 83. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

23. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Henderson County's water line in the vicinity of Junction 22. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

24. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Henderson County's water line in the vicinity of Junction 33. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

25. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Henderson

County's water line in the vicinity of Junction 83. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

26. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Henderson County's water line in the vicinity of Junction 208. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

27. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Henderson County's water line in the vicinity of Junction 149. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

28. Provide pressure recording charts showing the actual 24-hour continuously measured pressure available on the suction and discharge sides of Henderson County's Pump No. 1. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

29. Provide pressure recording charts showing the actual 24-hour continuously measured pressure available on the suction and discharge sides of Henderson County's Pump No. 2. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

30. Provide pressure recording charts showing the actual 24-hour continuously measured pressure available on the suction

and discharge sides of Henderson County's Pump No. 4. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

31. Provide pressure recording charts showing the actual 24-hour continuously measured pressure available on the suction and discharge sides of Henderson County's Pump No. 5. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

32. Provide pressure recording charts showing the actual 24-hour continuously measured pressure available on the suction and discharge side of Henderson County's Pump No. 6. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

33. Provide pressure recording charts showing the actual 24-hour continuously measured pressure available on the suction and discharge sides of Henderson County's Pump No. 7. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

34. Provide a list of each of Henderson County's water storage tanks. Give the location, capacity, and overflow elevation of each tank. Explain how water is supplied to each tank. Also state if tank is in use and if tank is going to remain in use or be abandoned.

35. Provide a list of each of Henderson County's pump stations. Give the location, number of pumps and their rated capacities, and the purpose of each pump station. Explain how the operation of each pump station is controlled. Provide a copy of

the pump manufacturer's characteristic (head/capacity) curve for each of Henderson County's pumps. Identify each curve as to the particular pump and pump station to which it applies. Also state if pump is in use and if pump is going to remain in use or be abandoned.

36. On December 27, 1984, the Commission requested by letter (Ref: Page 2, Item 2a.) a billing analysis covering the entire test year in accordance with the sample attached. The case cannot proceed until this information is filed. An additional sample billing analysis is attached for your convenience. Please provide a billing analysis showing present and proposed rates, bills, gallonage and revenues in accordance with the attached sample.

Done at Frankfort, Kentucky, this 14th day of June, 1985.

PUBLIC SERVICE COMMISSION


For the Commission

ATTEST:

Secretary